

ASSOCIATE DEGREE IN ENGINEERING (7022)

Approved Abbreviation: AssocDegEng

Western Sydney University Program Code: 7022

AQF Level: 6

This program applies to students who commenced in 2021 or later.

Students should follow the program structure for the session start date relevant to the year they commenced.

For commencement year Q3, 2015 please refer to: 7022.3 Associate Degree in Engineering (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=7022.3>)

For commencement year 2014 please refer to: 7022.2 Associate Degree in Engineering (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=7022.2>)

This program is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The Associate Degree in Engineering is designed for people who wish to pursue a career in Engineering at entry level or who are in traineeship positions. The qualification can lead to employment or pathway to a Bachelor Degree program.

The Associate Degree in Engineering has a common first year program for all engineering disciplines, exposing students to a wide range of experiences in the first year. In the second year students may choose from Civil, Electrical, Mechanical or Robotic & Mechatronic majors. If students choose to apply to study in the Bachelor of Engineering (Honours) after graduating from the Associate Degree in Engineering they may be given advanced standing in up to 12 subjects.

For more information on Western Sydney University, The College, please refer to their website.

Western Sydney University, The College (<https://www.westernsydney.edu.au/future/study/application-pathways/the-college.html>)

Study Mode

Four years part-time

Program Advice

College Program Enquiries (<https://directory.westernsydney.edu.au/search/email/AdminApp@westernsydney.edu.au>)

Location

Campus	Attendance	Mode	Advice
Penrith	Part Time	Hybrid	See above
Nirimba Education Precinct	Part Time	Hybrid	See above

Accreditation

Full accreditation has been accorded for the Civil Major by Engineers Australia in 2021. Provisional accreditation has been accorded for the Electrical, Mechanical and Robotic and Mechatronic Majors in 2021.

Work Integrated Learning

Western Sydney University seeks to enhance student learning experiences by enabling students to engage in the culture, expectations

and practices of their profession or discipline. This program includes a placement or other community-based unpaid practical experience.

There is a mandatory work component required for completion of this program. Please contact the Program Advisor listed above for information.

Admission

Admissions 2023

Applicants may be regarded as eligible for admission if they have completed the NSW HSC and attained the required ATAR (Australian Tertiary Admission Rank), or have completed other equivalent qualifications such as a recognised Certificate III or Certificate IV and vocational experience and attained the required entrance standard set for entry to the program. This may include bridging/preparatory courses, para-professional and other post-secondary qualifications.

Admission to the Associate Degree in Engineering also requires an applicant to have a minimum of three (3) years industry experience or be a member in a suitable traineeship program.

Admissions 2024

Applicants may be regarded as eligible for admission if they have completed the NSW HSC and attained the required ATAR (Australian Tertiary Admission Rank), or have completed other equivalent qualifications such as a recognised Certificate IV related to engineering. This may include bridging/preparatory courses, para-professional and other post-secondary qualifications.

Applicants who have not achieved the required ATAR but have obtained at least Band 4 in HSC Mathematics, Mathematics Advanced, Physics or Chemistry (or equivalent) may be regarded as eligible for admission.

Program Structure

Qualification for this award requires the successful completion of 160 credit points as per the recommended sequence below.

Recommended Sequence

Course	Title	Credit Points
Year 1		
Quarter 1 session		
MATH 1010	Fundamentals for Engineering Studies (WSTC AssocD)	10
Credit Points		10
Quarter 2 session		
ELEC 1007	Engineering Computing (WSTC AssocD)	10
Credit Points		10
Quarter 3 session		
MATH 1022	Mathematics for Engineers Preliminary (WSTC AssocD)	10
Credit Points		10
Quarter 4 session		
ENGR 1009	Engineering Materials (WSTC AssocD)	10
Credit Points		10
Year 2		
Quarter 1 session		
MATH 1017	Mathematics for Engineers 1 (WSTC AssocD)	10
Credit Points		10

Quarter 2 session		
ENGR 1012	Engineering Physics (WSTC AssocD)	10
Credit Points		10
Quarter 3 session		
ELEC 1004	Electrical Fundamentals (WSTC AssocD)	10
Credit Points		10
Quarter 4 session		
ENGR 1019	Fundamentals of Mechanics (WSTC AssocD)	10
Credit Points		10
Year 3		
Quarter 1 session		
ENGR 1025	Introduction to Engineering Practice (WSTC AssocD)	10
Credit Points		10
Quarter 2 session		
ENGR 1023	Introduction to Engineering Business Management (WSTC AssocD)	10
Credit Points		10
Quarter 3 session		
ENGR 2031	Management Practices for Engineer Associates (WSTC AssocD)	10
Credit Points		10
Quarter 4 session		
Alternate subject		10
Credit Points		10
Year 4		
Quarter 1 session		
ENGR 2030	Industrial Experience (Associate Engineer) (WSTC AssocD)	10
Credit Points		10
Quarter 2 session		
Alternate subject		10
Credit Points		10
Quarter 3 session		
ENGR 2010	Engineering Project (WSTC AssocD)	10
Credit Points		10
Quarter 4 session		
Alternate subject		10
Credit Points		10
Total Credit Points		160

Robotics and Mechatronics, Testamur Major (T037) (<https://hbook.westernsydney.edu.au/majors-minors/robotics-mechatronics-ug-testamur-major/>)

Students must also select one of the following majors and successfully complete three alternate subjects from the one major.

Please note: Offerings of alternate units are dependent on there being sufficient student enrolment numbers. If enrolments are low, the College may cancel delivery of the alternate unit.

Civil, Testamur Major (T033) (<https://hbook.westernsydney.edu.au/majors-minors/civil-ug-pg-testamur-major/>)

Electrical, Testamur Major (T035) (<https://hbook.westernsydney.edu.au/majors-minors/electrical-ug-pg-testamur-major/>)

Mechanical, Testamur Major (T036) (<https://hbook.westernsydney.edu.au/majors-minors/mechanical-ug-pg-testamur-major/>)